

## **Abstract**

**Title:** Case study of physical therapy treatment of a patient after stroke with left hemiparesis.

**Objective:** The aims of this bachelor thesis were to find out theoretical information about the diagnosis and prepare the case study of the patient after stroke with left hemiparesis.

**Method:** This bachelor thesis is divided into a general part and a special part.

The general part is theoretical and describes the characteristics and epidemiology of stroke, anatomy of the blood supply of the brain, physiology of the brain perfusion, etiopathogenesis, prognosis and different types of stroke. The following chapters of the general part were focused on ischemic stroke, its classification, clinical symptoms, diagnosis and treatment of acute ischemic stroke. The next chapters are dedicated to stroke assessments, physical agent modalities, rehabilitation of stroke and physical therapy methods and procedures.

The special part is about methodology and a case study of physical therapy treatment of a patient after stroke with left hemiparesis. The case study contains an anamnesis, input kinesiological analysis, detailed analysis of selected exercise sessions, control analysis, output kinesiological analysis and a final evaluation of the effect of therapy.

**Results:** The applied therapy improved self-sufficiency, stability during verticalization, standing and walking, improved gait stereotype and global stereotypes, increased the range of motion muscle strength of the lower limbs.

**Keywords:** stroke, ischemic stroke, left hemiparesis, physical therapy methods and procedures